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-257-

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-260-

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-263-

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-267-

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-271-

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-272-

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-273-

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-275-

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-277-

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-278-

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-299-

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-300-

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-311-

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-313-

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-317-

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-321-

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-322-

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-327-

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-331-

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-333-

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-337-

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-338-

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-343-

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-352-

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-353-

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-357-

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-370-

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-371-

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-372-

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-376-

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-382-

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-387-

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CGGTGAGGCGGCAGATGTGTTGTGCGGCAAATTGTTTTATATCACTATCAGACGGTTTTAA  
GAAGATTGGTAAAGTTAGTGTTATGTTTTGAGTTTGGATTTCATGAGAGAAGGTTTTCAGA  
CGACCTTTGTCTGATACGGGATGAAACGGGCAAAGGTCGTCTGAAAAATGATAGGTTGAA  
45 AACAGCTGAATTTTACCCGAAAAAAGCGGATATGCCGTAACGACATATCCGCTTTGATT  
GCATTCGATTTTAGGAGAACAGGCGCAATGCGGTTTTGCCGCGCGGTTGATACCGACTT  
TGAGCATCTCGGACTGACGCGCCAATACATAAGTGCACGCTCTTTGAGCCATTGGGTCCG  
AAACTTCTTCCATTTTGTGCTTGACCGATTTCAGTTTCAACTGGCCGGACAGGCGTACCG  
CCAAATCCATAAAACAATCGTCGAAGGTTTTTTTCGCCTGCCGAGAGTGCGGGATGTCGA  
50 GCAGCATACTGAAGCCTTTGTAGGACTGGTTGTCCAAAAGGGCGTTGGTAACGGCTCGT  
TGTTGAGCGAGCAGATGGAGAATGGTCGAGCCGACGTGTCGGTATAGTGGAACGCGC  
CGTCTGCTTCCAAAACGAAACCCACGCCGTTACGGCGGAACGAGTTCTACGCCGCTGA  
TGCTGGTCGGGGAAACCAATGGATGGCGATGGTCTGGTCGACGCGCGCGCAGAATGCGT  
CCAGTGCGGAAGCCACTTCGATAAAGGCGGCAAGGTCGGTGTGACGCGTCTGACCGCCCA  
55 TGCTTTGTGCGAATGCGTCCACCTGGCGGTTGAATGCGGAGAGTTCTTCCTGCGAGGCAA  
TGCCGTTGCGGCTGACTGCCTGAATACCCACGATAAATGCCTGATAGCGGATGCCCGGGA  
TGGGTTCCGGCAATCTGGAATGGTCTCATGGTGCAGCCGACAATCTGGTAGCGGCAGC

GGTTGGAAAGGCGCGGCAGTGCCTGTCAGTTCTTTGGCTTCGGTCAGCGCGATATAGGAGA  
TGAAGTCGAAGCGCACGTCAAACAGGGTAATTCGACTTTTGACAGTTCTTTGAGCGTAA  
TCAGCGGTTTTTGAGGTGTTTTGCGGAACGGGTGCAGTTTGGCCGGCGCGTCGGCAGGTT  
TCGGTGCAGGAATGTCCGGTTTGGGGTTCGGAACGGTGTGGGCGGAGTTGCCGATAATGC  
5 CGCTTTCTTCCAAGGCGGTTTCGATTTTCGGTTTTGAACGGGGAGGCTTTTGCCTGTTTCT  
GCTTGGCGATGTAGACGGCATCCTGTTCTTGCAGTTGCGCATGGCGGGGCTTGGGGTT  
TTGCCGTTTTTTTTGACCGCCGTTGGGGTTTCGGCATCATGACTGACCGCCGGACGGTT  
TGCCGTGCGGACATGGCTGGTTTTGCTGTTGAGCAGGGCATCTTGTGCGAGTGTCCGA  
10 ACTGGTTCGCGCACTTTTTTGGGTATTGGTTTTCTTGATACATGTTGTAGGCGACAACGG  
CGAGGACGACAGCTAGAAAACAGTACGATGTAAATCATGGCAATCACTTGTTAAATTTTCGG  
GATGCAGGATACGCAAAGTGCGGGTACTGCGGTTAAATCGGGCTTGCACTGCGGTTAAAT  
CGGGCTTGCCTTTCCGGCAGTCTGACGGAACGGCCGATTATAACGTTTGAATTATAACGA  
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15 GAAATCTGTGGTTTTTTCAGACGGCATTTCTGTCCACGAGAAACCTTTCTCCCGTATCCGC  
CGCCAGTCGAAAAAATGGCCGGGGTTCGGTTTTTGGCGCCGGGCGCGATGTCTTGGTGCCCC  
GTTACCGCCGTGACGGGTAGTGCGCGCAGATTGCGTCCAACAAGGCTTCGAGCGAACGG  
TATTGCGCTTCGGCAAACGGTTTCGAAATCGCAGCCTTCCAGTTTCGATGCCGATTGAAAT  
GCGTTGCATTTTTCCCTGCCGCCGAATGAAGATACGCCGGCATGGTATGCCATATTGTGCG  
20 CAGGAAACGAACGTACCGTTTTCTCCGTCCGTTTGATTAAAGAAATGGCTGGATACGCGC  
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TTTTCCACCGCATCCGTGCCGTATTTCGAACGGCGCGCAGCGAAATGTTGTGCAACACGATC  
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CTTTGAAGCCAGCCGTTTTTGCAGTGTGCTTCGGCGTGATTGTCCATGATGTTCTTCTG  
25 TCCGGCGGGCAATTTGGGTTATACTGTGCGCCGAATTTTAAGACGTATTCGAATGCTGG  
GAATCCTACCATGTTGAGAAAATTGTTGAAATGGTCTGCCGTTTTTTTTGACCGTGTGCGC  
AGCCGTTTTTCGCCGCGCTGCTTTTTGTTCCTAAGGATAACGGCAGGGCATAACGAATCAA  
AATTGCCAAAACAGGGTATTTCGTGCGTCGGCAGGAACTTGCCGAAGACCGCATCGT  
GTTTCAGCAGGCATGTTTTGACGGCGGGCGGCTACGTTTTGGGTGTGCAACAGGCTGCA  
30 TACGGGGACGTACAGATTGCCTTCGGAAGTGTCTGCTTGGGATATCTGCAGAAAATGCG  
CGGGCGCAGGCCGGATTCCGTTACCGTGCAGATTATCGAAGGTTCCGCTTTTTTCGCATAT  
GAGGAAAGTCATCGACGCAACGCCCGACATCGGACACGACACCAAAGGCTGGAGCAATGA  
AAAATGATGGCGGAAGTTGCGCCCGATGCCTTCAGCGGCAATCCTGAAGGGCAGTTTTT  
CCCCGACAGCTACGAAATCGATGCGGGCGGCAGTGATTTGCAGATTTACCAAACCGCCTA  
35 CAAGGCGATGCAACGCCCGCTGAATGAGGCATGGGAAAGCAGGCAGGACGGGCTGCCTTA  
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AGCCGACCTTCCGCCGCGACACGCCGTACAACACCTACACGCGCGCGGCTCTGCCGCCAAC  
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40 ATACCTGTATTTTCGTGTCCAAATGGACGGCACGGGCTTGAGCCAGTTTCAGCCATGATTT  
GACCGAACACAATGCCGCCGTCCGCAAAATATATTTTGA AAAAATAAACCATGCCGTCTGA  
AAAGTTTGTGTTTTTCGGACGGCATACCCTTACCGGAAGTCAAGCATGAAACCGCAATTC  
ATCACTTTGGACGGCATAGACGGTGCCGGCAAATCCACCAACCTTGCCGTATCAAGGCA  
TGTTTGAACGGAGGGGGCTGCCCGTGTGTTACGCGCGAGCCGGGCGGAACGCCGGTC  
45 GGTGAGGCTTGCAGCAATCCTGCTCAACCTGAAACCAAGCCGGTTTGCCTGCGGAA  
ACCTGATGATGTTTCGCCGCGCGTATGCAGCATATCGAGGAAGTCATCCTGCCCGCGCTT  
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GGCGGGCGGGGATGCCGTCTGAAGACATTGAAATTTTGAACATTGGGTGACGGGCGGT  
TTGAAGCCGGATTTGACCTGCTGCTGGATGTGCCGCTCGAAGTGTGATGGCGCGTATC  
50 GGGCAGACGCGGAGAAAGACCGTTTCGAGCAGGAGCAGGCGGATTTCTTTATGCGTGTG  
CGCGGCGTTTATCTCGACCGAGCCGCCCTGTCCCGAACGGTACGCCGTTATCGACAGT  
AACCGCAACTTGGATGAAGTCAGAAACAGCATAGAAAAAGTGTGGACGGACATTTCCGGC  
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GCCGCAGGTGAAAAATGGCGGTATGCCCAAACTTTCCGCATGATAGAATTACGCTCGGTT  
55 ACAAGCAGGATGCGTCGGCAATATTAACGAACCGCCCGTAACATGATGACCCGAAAGCG  
TTTCGGCAGTCCGATTCAAATCTTTTTCTCGCAACAGGATTGACACATGGA AAACATCAT  
TGAAAGAAGCCGCCCTCAAGTTCACGAATTCCCCGTGCCGGGCAAAATTTCCGTTACCC

CGACCAATCTCTGGCGACCGACAAAGATTTGGCGTTGGCGTACTCTCCGGGCGTAGCCG  
CTCCTTGTATGGAAATCCATGCCGATCCGCAAAATGCCTACAAATACACCGCCAAAGGCA  
ACTTGGTCGCTGTCATTTCCAACGGTACGGCCGTTTGGGCTTGGGCGACATCGGCGCGC  
TGGCGGGCAAACCCGTGATGGAAGGCAAAGGCGTATTGTTCAAAAAATTCGCCGGTGTGG  
5 ACGTGTTCGACATCGAAATCGATGAAAAAGACCCGCAAAACTCGTGGACATCATCGCCG  
CTTTAGAGCCGACCTTCGGCGGCATCAACCTCGAAGACATCAAAGCACCCGAGTGTCTTCT  
ACATCGAACGCGAATTACGCAACGCTGCAAAATCCCCGTATTCCACGACGACCAGCACG  
GCACGGCCATCATTACCGCCGCGCCCGTATTGAACGCCCTGCGTTTTACCGGCCGTAAAA  
TCGAAGAAGCGACTTTGGTGTGTTCCGGCGCAGGTGCGGCCGCGATTGCCTGCTTGAACC  
10 AATTGCTGGATTTGGGCTTGAAACGCGAAAACGTGACCGTTTGCGACTCCAAAGGCGTGA  
TTTACCAAACCCGCGAAGACAAAGACCGTATGACGAGTCCAAACAGTCTACGCCATTG  
AAGACAACGGCCAGCGCGTGTTCGCGATGCCGTCAAAGGCAAAGACATCTTCTTGGGCC  
TCTCCGGCGCGAACCTGCTGACGCTGAAATACTGAACACCATGAACGAAAAACCCATCG  
TGTTCCGTATGGCCAACCCGAATCCGGAATCCTGCCGCCGCTGGCGAAAGAAACCCGTC  
15 CGGACGTGGTTATCGGTACCGGCCGCTCCGACTTCCCGAACCAAGTGAACAATGTATTGT  
GCTTCCCGTTCATCTTCCGCGGTGCGTTGGATGTGCGCGCGACGACCATCAACGAAGAAA  
TGAAACGCGCCTGCGTGTATGCTTTGGCGGATTTGGCGATGGAAGAAGTAACCGAAGAAG  
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20 GTGTGGCAACCCGTCGATTCGAGATTTGGAAGCTTACGCTGCCAAGCTGAGCGAATGGA  
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25 AAAATGAAAGAGATGAAACCTGTCCGTTATCATATTGGCGATATGCCCGAGACTTCAAAA  
CAAACCGCCTCCCGTCATGACGACAGGGCAGTGGGTGTTGACGATGATTGTTTTCATGAT  
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30 GATTTGTATCGAATATGCCGAATTTGTTCAAATTTATACCGTTATCGAACGGCATTGGC  
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35 ACGGGCGCAAGAGCAAGGCGGTTTCATGTATTGAATGCTGAGAGCCGAGCGGAAGATGCCG  
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CGGATACGGGGCGCACGGATTTGGATTTACTGCCAACGGCAGTTTGCAGCAACCTTTGT  
40 TGGCGCTGGATTTCGGTGGATGCGGTCGTGTCAGCGGCGGCAAGGCGGATGCGCTGTTA  
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ATCCGTCCGAAATACTGGACACAGGCCGTCTGAAAATCAAACCGTCGTGCGCGTGGCAG  
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GAACCGTCGCGCTGCCCGACACGCCGACATTTCCGGCGCAGATTTGCCCGATGCGGACG  
45 CGGTCAATTATTACGGAGAAAGATGCGGTCAAATTTTCAGACGGCATTTCACCGGATAATG  
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50 GAGAAAACCGGTGCTATTTTTATCTGCATTAATCATTCAATTAAGGATTGAATATTAAA  
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CCGCCCAGCGACGCGTCTGTTGGCGCGTGGCTGGATACGCAGAATTTTGACCGGGATATA  
GAAAAAATATGATTGAGGGCTTAAATGCCGGATTTAAACCGTATGCGGACAAAGCCCTT  
GCCGAAATGCCGGAAGCGAAAAAGATCAGGCGGCAGAACGCTTAAACCGTTATCGTGAG  
55 AATGTTTTGAAGATTTGATTACGCCCGAAGTGAACAGGCTGTCCGCAATACTTTATTG  
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GAAATAGCGGTATCTTGGACTGCATTGTCAGGGAAAATCGCGCAACATCATCTGCCCGAG  
TTTACGGAAGAGTTGCGGCGCATCATCTGCGGCGGTAAAAATCCCGATGCGGGCTGTAAA  
CAAGCCGGACAGGTTGGGAAAAGGCATCAGAAATAAATGATAGCCGTCTGAAATATTGAA  
GAGGGCATCCGATTGATTGAACCATCAAACCCGAAAGCAACCCTATGGAAAAAAATTCT  
5 TAGACATCCTCGTCTGCCCCGTACCAAAGGCAGGCTGGAATATCATCAGGACAAACAGG  
AATTGTGGAGCCGTGAGGCGAAGCTTGCCCTATCCGATTAAAGACGGCATTCCTTATATGC  
TGAAAAACGAAGCGCGAGCGTTGAGCGAAGAGGAACCTCAAAGCATGACCGAATTCGTCTGT  
ATTGATTCCGGCGCGGCTGGATTCTGTGCGCCTGCCCGGAAAAGCCTTGCGCGACATCCA  
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10 CGTCGTGTCACCGACCATCCGATATTGACAGGCGCTGTGAGGCGCACGGTATCGAAGT  
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CCCCGAACTCATCGACCGCACCGCCGAAGTACTCGTCGAAAAACAACGTCCAAATGGCGAC  
CGCCGCCCACGAATTGCACGATTTCGACGAATTGATGAATCCCAACGCCGTCAAAGTCGT  
15 CCTCGACAAAAACCGCAACGCCATCTACTTCAGCCGCGCCCCGATTCCCTATCCGCGTGA  
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CGAAACCGCCAAAGAAGCCCCCGCGGTTGGATACGCAAGAGGACTTGGACAGGGT  
20 TCGCGCCGTATTTGACACCGTATAAAACAGGTTCAAAGGGAAAAGATATGCAGCAACATA  
TTGAAAAGTGGAACACTTGAGCCGGGAAGAACAGAAAATCCTTGCTGAAGTATGGGGTC  
TCGTGCAAAACGACGATCAGGAGGTTCACTATGAAATGCTCAAATTGAACGCACCCGATG  
AAGCCAGCGGCGAATTTTGGTTCAGAATGGCAGAAACACTCAGCACCCGTGCCGCCAAC  
GTTCCCTCGGCCTTAGAATGAACGGCGGCGAGGCTGGCGACCGCGTATCCATCCTTTCCG  
25 TCATGATTGAAGACAATCCCGACATACCGCAGCTTTGGGCGCAAAAAATTACCGCGCTCA  
ATTATAGTGGATTAAATTTAAACAGTACGGCGTTGCCCTCGCCTTGTCTACTATCTGTA  
CTGTCTGCGGCTTCGTCGCCTTGTCTGATTTTTGTTAATCCACTATATTTGGCACACGG  
GCACAAAGCCCGTGGCGACGTTTGGCACAACAGCCGACAAAGCGGCAGAAAGCCAACGA  
GGAGGAATACCTGACCAAAGCCCTGTGCGAAAACCTGCTGTCAACATTGGATGTGCGCT  
30 TGCACGTTTTCTGAAGACGCGTGGTTTTAGGAAATCAAACAGGATGCACAAAAGCATT  
TGCTTGAGGATGTGGCAGTCAGGAATATTTCCATTGAGGAAGAAAAGAGTGCCTGATTG  
GGTATAATCAGGGTAAATCTTATTTTATTTCAAAGATTAATATTTGCTTTCTGTTTTTC  
CTTGACGGTATCGGAAAAGTTGATTATAGTTACAGCTTCTTAGGAGTAATGGCTGAGAG  
GCTGAAGGCACCTCCCTGCTAAGGAAGCATGTGGGGTCAACCTGCATCGAGGGTTGGAAT  
35 CCCTCTTACTCCGCCAGATAAAAAATAGACGCTGTGTTTTACAGCGTCTATTTTTTATGC  
AATTTTATAGCGGTTGGTGCAAAACAGTATGGTATTGCCCTGTCTTGATTCTGAATTT  
TGTTATAGTGGATGAACAAAACAGTACGGCGTTGCCCTGCGCTTAGCTCAAAGAGAACG  
ATTCTCTAAGGTGCTGGAGCACCAAGTGAATCGGCTCCGTAATTTGTACTGTCTGCGG  
CTTCGTGCGCTTGTCTGATTTTTGTTAATCCACTATAATCCGAGATGCTTGCCGTTTTAT  
40 TTCCGCCTCGTTCAAACGGCGGCTCTGATTGCGCGGTTTCTGTTTGCCGTATTCGCCTA  
TCCGTACCGCAAATGTTATACTGGGAAAATTTACTGATTGTGTTTTACGGCATATTTGC  
CGATAGGATGGAAGAGACAAATGAGCAGAATCCGGCAGGCTTTTGCCGCTTTGGATGGCG  
GAAAGGCATTGATTGCCCTATATTACGGTGGGCGACCCCGATATTCGGACAACCTTTGGCAT  
TGATGCACGGCATGGTTGCAAACGGTGCGGATATTTGGAGTTGGGTGTGCCGTTTTCCG  
45 ATCCGATGGCGGATGGGCGGTTATTACGCGTGCGGCGGAGCGGCGTTGGCAAACGGGA  
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CGGTTGTTTTGATGGGATATTTGAACCCTGTACATAAGATGGGTTATCGGGAGTTTGCTC  
AGGAAGCCGCAAAGCGGGTGTGGACGGCGTGTGACGGTGGATTCCCTGTGCAAAACCA  
TCGATCCGCTCTATCGCGAGCTGAAGGATAACGGGGTGGACTGTATTTCTCTGATTGCGC  
50 CGACGACGACGGAAGACCGTATTAACACCATTCGCGAGCTGGCAGGCGGATTGTCTATT  
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AAATAGAGTATTTGCATCAGTATATCGATATTCCTATCGGTGTGCGTTTCGGCATCAGCA  
ATGCGGAAAGTGACGCAAAATCGGCCGGGTTGCCGACGCAGTTATTGTGCGCAGCCGGA  
TTGTGAAAGAAATCGAAAACAATACAGGCAACGAGGCTGCCCGCGTGGTGCTTTGGTAA  
55 AAGAGTTGAAGGATGCCGTGCGCTGACGGCGGTTCCATCATCCTGAATATTTAGGAGTTG  
TCCATGAGCTGGTTAGATAAAATCCTGCCACCCAAAATCAAGAATCGCGGAAAAGACGGT  
TCTTCCAATGTTCCCGAGGGTCTATGGCACAAATGCCCGTCTTGTTCGGCAACCGTTTAT

TCTACCGAGTTGCAGCAGAACAAATCAGGTTTGTCCGAAATGCAACCACCACAATCCGTTG  
TCGGCACGACAACGCCTGAACCTGCTTTTGGATGAGGATGGCAGGGAGGAAGTTGCCGGA  
AATGTCAAACCGACAGATCCTTTGAAGTTTAAAGACGGCAAAAAATATCCGGATCGTTTG  
AGTGCGGCACGCAAGCTGACCGGGGAAGATGATGCTTTGGTGGTGATGAAAGGCAAGATG  
5 AACGGCCTGCCCGTCGTGCTTGTGCTGCTTTGAGTTCGCTTTATCGGCGGTTTCGATGGGT  
TCGGTTGTGGGCGAACGATTTCGTACAAGGTATCCGTGCGGGGTATGCCGACAATTGTCCG  
TTCGTCTGTGTGTCGGCTTCCGTGCGGCGCGCTATGCAGGAGGGTGTAACCTCGCTGATG  
CAGATGACGAAAACAGTGCCGCGCTGCATTTGCTGACGGAACCGCTGCCATTTATA  
TCGGTGTGACCGATCCGACTATGGGCGGCGTATCCGCCAGCTTCGCATTTTGGGCGAT  
10 GTCGTGCTTGCCGAACCGAACGCGCTGATCGGTTTTGCCGGTCCGCGCGTGATTGAGCAG  
ACGGTGCGCGAAACGCTGCCGGAAGGCTTCCAACGCGCGAGTTCCTGCTGAAAAAGGC  
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CTGTTGTGCCGTGAGGACAAAGTTTCCGCCGCTGATGGCTGATGAATCGAGTACCGTCT  
GAAACCGATGTTTCAGACGGTATTTTTGTGTCTGGTTATTTGTTGTGCGGCTTTATCGAT  
15 GGGGCATAGCGTCCGGCACGTTCTTTAGGCGTTGTACCAAACCTTTCGTGTCGGCGGGT  
ACACCGCCCTCGCAGAATGCCTGATACAGGACGGTGCAGTGCCTCGTTGCGGCTTAAT  
GTACCGCCTATCGGTTTCCATTGCGCGTTTCGGGGCTGTATCCAGCGCGGTTGACCGTG  
TCGCCGTAGCCGAACACTTTATAGGAGGAAGGTTTGCCGTGCCGAACCTGATGGAGAAG  
CGGCGCAGAAATATGCCTTTGGCAGTCAGGTTGTGCTAGCCTTTGTGCGAGCGGATATTG  
20 AGAATGTAGCGGATGCTGCCGTGCGGCGCGGGCATAATTTGCAGGCTGTGAGCAGGATT  
TTCGGCTGTTTGCCTAATTTTCATCCACATAAATGTGCAACCAGCCGTCGAGTGCGTA  
TCGGGCAGCGCGGCGAGTTTGGCGGTATGTTCTTTAAATTCGCGGGCGGCGGCTCTTCG  
GGCGTTTCGCGGTAGCGGGTGTGATCGGCGTGTCTTTTGGCTGAAGCCGCGAGCGAGG  
GACGTGCCGCGGCGAGTGCGAGCAGCAGGAGGGCGGTGCGGCGCATAAGTTTCTCCAAA  
25 TTGAAAACGGCGTTATTTTATGGGTGGCAAAGGGGGCTGCAAGCAACTGGGGTATAATC  
TCCCCCGATTCCCATTTTTTAAACGGTACAAACGATGAACAGCGAAACTTTAGACGTAA  
CCGGATTGAAATGTCCCCTGCCGATTTGCGGGCGATAAAGGCTTTGGCGCAAATGCAGC  
ACGGCGACCTG

30 The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 38>:

**gnm\_38**

AGACAAACTTTTTGAACAGCATGACGGCAAACCTCGAAAGCATGGACGGGCGGGAACAGGA  
GCTGGATTGATTTGGCGGACAGAAGCCGATATCGGTAACGGCAGCATACTGCAATTTGT  
CTGCAACTGGGGTTTCCCGCGCGCCGAAAAGACCTGTTCCGTTCTGAAAAAATCGGCG  
35 CGGTACACAGCGCAATGCTGATCCATCGGGCGGCAGACGATTGGACAAAGAAATCCGCC  
GCCTCCAATCGGAAGGTAAAAACCTGAAAGAAATGTGGGATATAACATCTCGACAACAAA  
ACCGCTCACTGCTGAACAGTCTGGATGAACAATATTGGCAAGACCCCGACAACTGTAT  
CTGCTGGGATGGCAATACTATTCCAGCAACCCTGTTTCAGACGGTGGCGGATTTCGATTTG  
AAGTGCAACTTTCCCTAACGAAAAAGGCCAGTATGCGGTAGCATAACGGCTTTTCCTGCA  
40 AGAAAGATTGCCATGAGCTACACGCAACTGACCCAAGGCGAACGATAACCATCCAATAC  
CTGTCCCGCCACTGCACCGTCACCGAAATCGCCAAACAGCTGAACCGCCACAAAAGCACC  
ATCAGCCGCGAAATCAGACGGCACCGCACCCAAGGGCAGCAATACAGCGCCGAAAAAGCC  
CAGCGGCAAAGCCGGACTATCAAACAGCGTAAGCGACAACCTATAAGCTCGATTTCGAG  
CTGATTCAGCACATCGACCCCTTATCCGCCGCAAACCTCAGTCCCGAACAAAGTATGCGCC  
45 TACCTGTGCAACACCACCAGATCACGCTCCACCACAGCACCATTTACCGCTACCTTCGC  
CAAGACAAAAGCAACGGCAGCACGTTGTGGCAACATCTCAGAATATGCAGCAAACCTAC  
CGCAAACGCTACGGCAGCACATGGACCAGAGGCAAAGTACCCAACCGTGTGCGCATAGAA  
AACCGACCCGCTATCGTCGACCAGAAATCCCGTATCGGCGATTGGGAAGCCGACACCAT  
GTCGGCAAAGGACATAAAAGC

50

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 39>:



## gnm\_39

CCGGCAAACACCGGCGCGTCCCATCCGTGCAGAAAAAGGATACGGAAAAGGATAAACCGC  
CATAACGTGCGGCGTTTGCTATAATCCGCCCTTCATTACCGCAGCCCGCGAAAGATGC  
CGATGGCAAACCGCTCAAATACCCCGTTTCCGCACTGGTCGTCCTTTATAGCGGGGACG  
5 GCGGCATCCTGCTCATCGAACGCACGCATCCGGAAGGATTTTGGCAGTCGGTAACCGGCA  
GCCTCGAACCGGGCGAAACCGTCGCCAAACGGCAAGGCGCGAAGTTTGGGAAGAAACCG  
GCATCCTGCTGGCGGACGGGCAGCTTCAAGACTGGCACGACAGCAGGTTTACGAAATCT  
ACCACCACTGGCGGCACCGCTATCCAAAAGGCGTGTTTGAAAACCGCGAACACCTCTTCT  
CTGCCGAAATCCCGCGTGATACGCCCATCGCCCTGCAACCCGAAGAACACGTCTCCTACG  
10 GTTGGTTTCGATATGGAAGAAGCAGCGGAAAAAGTATTTCCCGTCCAACAGGCGCGCGA  
TTTTGGAACCTGGGCAGGTTTTTGGGCAAACGGTAACACGCGCCCGTACACCTTTTCAGAG  
GCATCGGGCGCATTTTCAGCCGACGTTTTGTGCTATACTTTCAAACCTCACACTTTCCCA  
AACAAAGGAAACCAAATGGCAGACTTCAACCAAATCCTGACCCCCGCGACGTGGACGGC  
GGCATCATCAACGTTGTCAACGAAATCCCCGCCGCGCAGCAACCACAAAATCGAATgGAAC  
15 gCAAACCTgGCGCATTCCAAACCTCGACCGCGTCGAACCCGCCATCTTCGCCAAACCGACCA  
ACTACGGCTTCATCCCCAAACTTTGGACGAAGACGGCGACGAATTGGACGTGCTGCTCG  
TTACCGAACAACTTTGGCAACCGGCGTATTCTTGGAAAGCGCGCGTTATCGGCGTGATGA  
AATTCGTTGACGACGGCGAAGTGGACGACAAAATCGTCTGCGTTCCTGCCGACGACCGCA  
ACAACGGCAACGCCTACAAAACCTTTGTCCGATTTGCCGCAACAGCTCATCAAACAAATCG  
20 AGTTCCACTTCAACCATTAACAAGACCTGAAAAAGCAGGTACGACCAAAGTCGAATCGT  
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AGGCATAACGCCCCCATGCGCTCTGAACGCCGTTTCAGACGGCATTTTTCCAAGCTCTA  
GGGAATACCGTCCCAATCGGCTATAATCCGAACATACCGTTTCCGACCGAACGCCATGAA  
CCGCCGAAAAATCTATCTGTTGTCTGTTGCCCTCTTCACACTGGCATTTATGCTGCTCGT  
25 CCTCTTGGGTGCTTATCTGCTGACCGTCGCGCAGCAAAGCCTTCGCCGTGCGCTCCTTTCT  
TTTCGCATTGCGGCGCACTGTTTCGGACAAATCGGCAGCCTCGCCCTCTACCTGCGGCACAA  
ATCCCTACGCGCGCCCAATCCGCCACAAAGGAAAACCGCTATGTCTGAAAAACCGGAAA  
AAATCGTTTTGGCAAGCGGCAATGCCGGCAAGCTCGAAGAGTTCGGCAACTTATTCAAAC  
TTACAGCATACCGTATTGCCGCAATCCGCATTTCGGCATACCCGAATGCCCGAACCCCT  
30 ATCCACCTTTGTGCAAAACGCGCTGGCAAAAAGCACGCCATGCCGCCAAATACAGCGGGC  
TGCCCGCACTCGCCGACGACAGCGGCATCTGTGCCGCCGCTTAAACGGCGCGCCGGGCA  
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35 GGAACGACACGCCGCTCGGGCAAAACGGTTTCGGTTACGACCCGTATTTTTATCTGCCCG  
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40 TCCAATACGCCGTAGAAGAAGCCGTGGAAGCCGGCTGCACGGAATGGTGTGTTGTACCG  
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45 CCCCCAAAGGCGCGCTCAAACAAATGGTTCGAAGTGTACGGGCGCAGCGGCAACAGCATTT  
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55 ACGCGCAAATGCTGAAAGAAACCGGCGTGTTGGACGAAGGCGATTGCGGGACATCCGCC  
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-409-

TGAAGATGTCCATATGAACATCGAACGCCGCTGACCGACAAAATCGGGCGACGCGGGCA  
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 10 CCGCCTCGCTGGTTATGGTTACCTGAGCCGCTGTCTGAAGAAATGATTTTGTGGATGA  
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 25 TGCTGATCCATCGGGCGGCGAGCGCATTGGACAAAGAAATCCGCCGCTCCAATCGGAAG  
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30

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 40>:

#### gnm\_40

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 35 GTGCCACACCGACCTGCACGTTGCGGCAGGCGACTACGGCGAAAAACCGGGCCGCGTGT  
 GGGACACGAAGGCATCGGTTTGGTTAAAGAAGTTGCCGACGGTGTGAAAAATCTGAAAGT  
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 40 TCCTGCGCAAGCTTCCAGCATTACTTGTGCCGCTTAACCACTTATAAAGCCATTAAAGT  
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-410-

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5 GAACGGAGCGGGGTTGAGGCTGAACAGAGCGAACACGAGGCTCATGGCGGTGAGGGCTTT  
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CAGTTTAGGATGACGGTACGGGCGTTTTCTGTTTCAATCCGCCCATCCGCCAAACATAA  
20 AAATGCCGTCTGAAACCGTTGCAAGTTTCAGACGGCATTTTCGTTATCCGCTTATTTTTT  
GCTCAAAGTCAGCCCGTCCAACCGAATAACAGGGTCAAAGCCAACTCAAATAGCAGAA  
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GCATACGCTCCACGTCAGAGCGGGTTAATCACCGTCCCGCATCTTCCAGCGTCCGCGA  
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25 CAAAATACTCAAATATTGCTCGCCGATCAGGAAATTAACCCCGACCGAAGTCATGGCAAC  
GCTGAACGTCGCGCGTCCGGCATTTCGTCAAGAAGGTACGGATGGCTCCAAACAGGGAAGG  
AATCACACCGAGCGCAAAACAACAGTCCGCCCAAATCATCCCGAGAATCACGATGGTTTG  
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30 GCTGTGCAGATACGTTACAGCAACGGCAACCATGACGGTAAAGAGCATGGCGACGACGGC  
GTTGATGCGCATCAATGCCAAATGACCAACAGCGCAACCGAATCAGCGAATAGCCGTG  
CACCAATCCCGTGGCTTCAAGCTGGCTGCGGAAGGATTCGACGCTGTTCAAATCCTGCGC  
GGCGACATTCCGCAAAAGCCAAAGCATCAGTGCCGCACTAATGAGCCACGCGGGGATGGT  
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35 ACCCGTCGTATCCGAAAGCGGGGACATTTTGTGCGCAAAAAATGCGCCCGAAACAATCGC  
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GACAGTGGCGCAGGTGGTCAGGCTGCTGCCGATGGACACGCCGATGACGGAACACAGCGC  
GAAGGAGGAAAAATAAAATAAGTCGGGGAATCAGTCCGAAACCGTAATACATCAGCGT  
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40 AATCGCGCCCATACCTGATTCAACGCGCCTATCATGCCCTGCTGCATATCGTTGTATTT  
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CGGCAACCACTCCAATGAAATGATGGTATAGCCCATCGCGGCAATCAGAGCGACGACGAC  
GGCAAGTGCCCTCACCGCGCGGCATATCGAGTAAGGATTTGAAAGCGAACATGATTCTTTG  
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45 CAGACGGCATTTTAGCGTTTTACAAAAGCCGGACAGAAACAAAACGGCAATTTTCTCAAT  
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 20 CCTTAGAGAATCGTTCTCTTTGAGCTAAGGCGAGGCAACGCCGTACTGGTTTTTGTTAAT  
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 25 GTTTGCTGCCCTCCCGAAAAATGCCGTCTGAAAAAACAATGAATCTGATGCGCGCTTTCG  
 GTATTTGGCTGCTTGCGTTTACCTGGCTGCCCGTCGTCGGCGACGCACTGCCGCTTGCCG  
 CCGGCTGGCTGCGGTTGAATCCGTGGACAAGCGGGCTGATGCTGGTTATCGGCAAAACGG  
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 30 TCGAACGCTTCCGCGCCGCCAACCCCATCCGACCACCGAGCTGAATTTCACTCCCCTT  
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 TGCAACCTGCCGCATCCTGCTGGAAAAATACAACGGCGAAGTGCCGGAAGACCGCGAGG  
 35 CTTTGAATCATTGCCGGGTGTGGGGCGCAAAACGGCAAACGTCGTATTGAACACGGCGT  
 TCGGCCATCCCGTCATGCGGTCGATACGCATATTTCCGCGTATCCAACCGAACCAGAAA  
 TCGCCCCCGGGAAGATGTGCGCGAAGTCGAAGACAACTGATGCGCTTCATTCTCTAAAG  
 AATTTCTGATGGACGCGCACCGTGGCTGATTTTGCACGGACGCTACACCTGCAAGGCAC  
 TCAAACCGCAATGCCAAACCTGCATCATCAACGATTTGTGCGAATATCCCGCCAAAGCCT  
 40 GACCGCCGCCGCCCTTCAAATGAAACGCTTGAAAATTCGGACGGACGTTGTAGAATTTT  
 AACCTATGCCGTCTGAAGCCGACAAAATGCGCTTCAGACGG

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 41>:

#### gnm\_41

45 GCAGGTCGTATCTAGAGGATCCCCGGCAATTTCCCTTTATCTGCTTTGAAAAACGGTGCA  
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 50 GCCCTTGTCGATGCTTTAAACGCGCAGATGCACAAGCTGTGGCACATTTCCAATATCTAT  
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 GTTTTTTCTGCAACTCGGGCTCGGAAGCGAATGAGGCGGCGTTGAAGCTGGCGAGGAAA  
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5 TTGTTGATTTTGGACGAAGTTCAAACCGGGATGGGGCATAACGGGCAGGCTGTTTGCCTAT  
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10 TTGCTGGATTGTGTCAGGAAAACGGGCTTGTCTCACAAGTTTCGCGGGATGGGGCTGCTA  
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GAATTTGCCGCGACATCAGACAATCCGTAATACTCAAATGCCGTCTGAAGGCGGGAAGGC  
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CAGGCAGCGTTTCGACGATGGACCTCAGGCCGCGCGCGCGGTTTTGCGTTCCATTGCCTG  
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25 CACTGTACCTTCAATCAGTTTCAACAAGGCTTGTGTCACACCTTCGCCGGATACGTCGCG  
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30 GCCGATAAGCAGGATGTTGGATTTTCGACAATTCGACATTAGCTCCTGCTTTAGGATGGCG  
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40 TATGCGCGAGCTTGCCGAACCTCGTCCGTACCGGACTGAAAGACCCGCGCGCGGCTTCAT  
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55 AGCGAAGACATCGCCAAACACATCGGCACGTTGCCACCTGACCGCCCTGCGCGGCACT  
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GAAACAGAACGCGACAGCTTGCTGCTACCTGCGACGATTTGGTTTCACACTTTCCCCAA



-416-

ACC GTTTTAAACGATTATGCCGTCCATATGCTCCACTGCGGACAACGTCCGCGTTTCGAA  
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5 TTCCGCAAAATCCCACACACTCGGACACCCGCCCGCTTATCGCAACTTTGCGAACGCC  
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GTTTTACGGTAGGTAGTTTCTGTCCACGAACCCGAATCGATGTAATCGTAAACATACG  
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 42>:

**gnm\_42**

```
5 AGGGTGAAGTGGTCGGGGCGTGCTTCGCTTAAAGTGATATCGAAGTATTCGTTTTGTTTC
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TTATAGGAAGGGTAGGTGATGAGCGTCAGGATGCCGAGGATGGCGACGGCAATCATCAGC
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25 CTTTACCGATTTTTTTCATGCAACTTACCGCTGTGCGACTCAATCATCAAACCGCACCTTT  
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25 TTACCCCGACCGAAGGCGAAGTGATGCTTTTGGGCGAACGTACCGGTAGCAAAGCGGGGG  
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40 GGCTTTTCAGGCAGCTTATTTGATCACACCAACAACGGTATCCGCACCGCCACCGGTTGG  
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-431-

CATGTCAAAGAACTAATCCGCAAAAAGCTTTTGTGGATTGGCCGAGATGCTTGCATAT  
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5 AATAAAATGTTTCTTTATATGGTAATGACGGCAACGACACTCTAATCGGCGGCGCCGGT  
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GACGGTATTACAGCCGATATGCTGACTTTTACCCGAGAGGGCAACCATCTTCTTATCAAG  
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10

The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 43>:

**gnm\_43**

CCTCGTAAAAGTTCCATGCTTTTTTCATGGAAATAGAAAACGACGGTGTGATTAGGGGTT  
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15 AGGCGACGCTGAAATGCAGTGCAGGCAAAAGTCAGGGTTTTAAGCATCATCCTCTCCCGGA  
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20 CACATATTGTCATTACTAACAAGTGATGATTTCTGCCGATATTATTGCGGCTAATCCGC  
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25 TGAACGGCAAAACGCTGGCGGTTTTCGGACGCGGCAATATCGGACGGACGCTTGCCGGAT  
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-432-

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5 CTTTCATTTTGTGAGGGCTTCGGCTTGCGATGGGGCTTGCCGTCGTGCGGGTTGTTGC  
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-433-

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 30 GGAAGGATTGCAGGCTTTTGGCGAAATCCTGCGCCGCCAGTGGGGCAGGGACAGGTGCG  
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The following partial DNA sequence was identified in *N. meningitidis* <SEQ ID 44>:

### 35 **gnm\_44**

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